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(21) International Application Number: PCT/US91/04010 (22) International Filing Date: 10 June 1991 (10.06.91) (30) Priority data: 535,407 8 June 1990 (08.06.90) US (71) Applicant: THE UNITED STATES OF AMERICA, represented by THE SECRETARY, UNITED STATES DEPARTMENT OF COMMERCE [US/US]; Washington, DC 20231 (US). (72) Inventors: SHEARER, Gene, Martin ; 5512 Glenwood Road, Bethesda, MD 20817 (US). GRESS, Ronald, Eugene ; 15621 Ancient Oak Drive, Gaithersburg, MD 20878 (US). CLERICI, Mario ; 4903 Mori Drive, Rockville, MD 20852 (US). LUCAS, Philip, Jensen ; 712 Oxford Square Drive, Silver Spring, MD 20905 (US). VIA, Charles, Sanford ; 3955 White Rose Way, Ellicott City, MD 21043 (US).	(74) Agents: OLIFF, James, A. et al.; Oliff & Berridge, P.O. Box 19928, Alexandria, VA 22320 (US). (81) Designated States: AT (European patent), AU, BE (European patent), CA, CH (European patent), DE (European patent), DK (European patent), ES (European patent), FR (European patent), GB (European patent), GR (European patent), IT (European patent), JP, LU (European patent), NL (European patent), SE (European patent). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	

(54) Title: METHOD FOR DETECTING IMMUNE DYSFUNCTION IN ASYMPTOMATIC AIDS PATIENTS AND FOR PREDICTING ORGAN TRANSPLANT REJECTION**(57) Abstract**

A sensitive and accurate tissue culture system and kit for detecting subtle changes in immune function is provided. The system is based on the comparison of IL-2 production by T helper cells in response to recall antigens including influenza A virus, tetanus toxoid, alloantigens, mouse xenogeneic antigens and the like or combinations thereof. Different stages of immune dysfunction can be differentiated and organ graft rejection can be predicted by the method of the present invention.

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